

IN THE CLAIMS

**This listing of the claims replaces all prior versions of the claims in the application.**

**Listing of the Claims**

1. (Currently amended.) An isolated antibody which specifically binds to a polypeptide selected from the group consisting of:
  - a) a polypeptide comprising the amino acid sequence of ~~SEQ ID NO:1~~, SEQ ID NO:3, ~~SEQ ID NO:5~~, or ~~SEQ ID NO:7~~, and
  - b) ~~a polypeptide comprising a naturally-occurring amino acid sequence at least 90% identical to the full length of the sequence of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, or SEQ ID NO:7, wherein said naturally-occurring amino acid sequence supports NADH dehydrogenase activity, and~~
  - ~~— c) an immunogenic fragment of a polypeptide consisting of at least 10 contiguous amino acid residues of an the amino acid sequence selected from the group consisting of ~~SEQ ID NO:1~~, SEQ ID NO:3, ~~SEQ ID NO:5~~, or ~~SEQ ID NO:7~~.~~
2. (Previously presented.) A composition comprising the antibody of claim 1 in conjunction with a suitable pharmaceutical carrier.
3. (Currently amended.) A method of preparing a polyclonal antibody with the specificity of the antibody of claim 1 comprising:
  - a) immunizing an animal with the polypeptide of ~~SEQ ID NO:1~~, SEQ ID NO:3, ~~SEQ ID NO:5~~, or ~~SEQ ID NO:7~~, or an antigenically-effective fragment thereof under conditions to elicit an antibody response; and
  - b) screening for antibodies with the polypeptide thereby identifying a polyclonal antibody which binds specifically to the polypeptide of ~~SEQ ID NO:1~~, SEQ ID NO:3, ~~SEQ ID NO:5~~, or ~~SEQ ID NO:7~~.
4. (Original.) An antibody produced by a method of claim 3.

5. (Previously presented.) A composition comprising the antibody of claim 4 in conjunction with a suitable pharmaceutical carrier.

6. (Currently amended.) A method of making a monoclonal antibody with the specificity of the antibody of claim 1 comprising:

- a) using the polypeptide of ~~SEQ ID NO:1~~, SEQ ID NO:3, ~~SEQ ID NO:5~~, or ~~SEQ ID NO:7~~, or an antigenically-effective fragment thereof, to make antibody-producing hybridoma cells; and
- b) screening for antibodies with the polypeptide, thereby identifying a monoclonal antibody which binds specifically to the polypeptide of ~~SEQ ID NO:1~~, SEQ ID NO:3, ~~SEQ ID NO:5~~, or ~~SEQ ID NO:7~~.

7. (Original.) A monoclonal antibody produced by a method of claim 6.

8. (Previously presented.) A composition comprising the antibody of claim 7 in conjunction with a suitable pharmaceutical carrier.

9. (Original.) The antibody of claim 1, wherein the antibody is:

- (a) a chimeric antibody;
- (b) a single chain antibody;
- (c) a Fab fragment; or
- (d) a F(ab')<sub>2</sub> fragment.

10. (Original.) The antibody of claim 1, wherein the antibody is produced by screening a Fab expression library.

11. (Original.) The antibody of claim 1, wherein the antibody is produced by screening a recombinant immunoglobulin library.

12. (Withdrawn--Currently amended.) A method for detecting polypeptide of ~~SEQ ID NO:1,~~ SEQ ID NO:3, ~~SEQ ID NO:5,~~ or ~~SEQ ID NO:7~~ in a sample comprising the steps of:

- a) combining the antibody of claim 1 with a sample under conditions to allow specific binding; and
- b) detecting specific binding, wherein specific binding indicates the presence of polypeptide of ~~SEQ ID NO:1,~~ SEQ ID NO:3, ~~SEQ ID NO:5,~~ or ~~SEQ ID NO:7~~ in the sample.

13. (Withdrawn--Currently amended.) A method of using an antibody to purify polypeptide of ~~SEQ ID NO:1,~~ SEQ ID NO:3, ~~SEQ ID NO:5,~~ or ~~SEQ ID NO:7~~ from a sample, the method comprising:

- a) combining the antibody of claim 1 with a sample under conditions to allow specific binding; and
- b) separating the antibody from the protein, thereby obtaining purified polypeptide of ~~SEQ ID NO:1,~~ SEQ ID NO:3, ~~SEQ ID NO:5,~~ or ~~SEQ ID NO:7~~.

14. (Canceled.)